

**MCS®**

Series

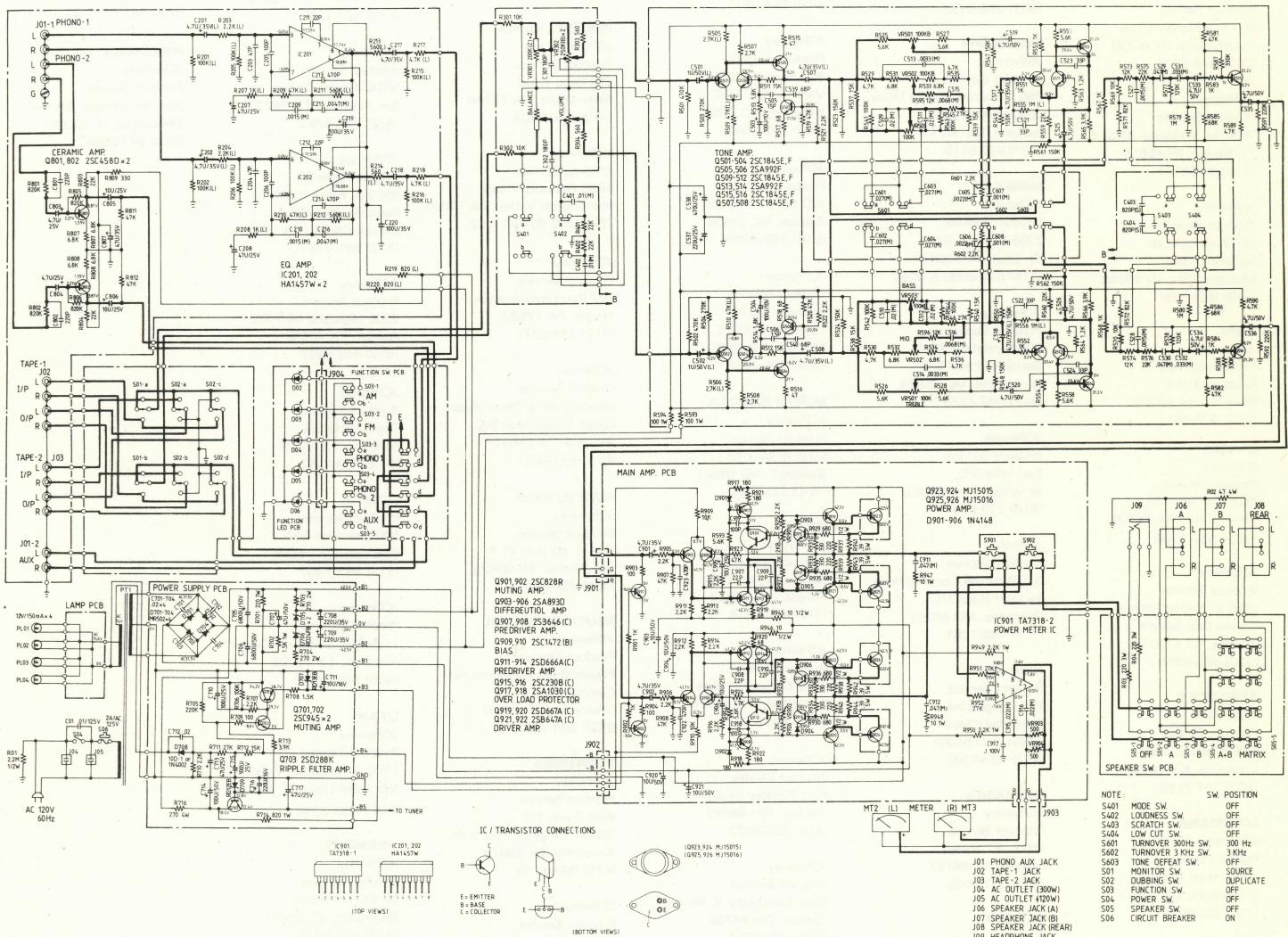
# Modular Component Systems

Stereo Receiver Model No. 683-3245

**CIRCUIT DIA**

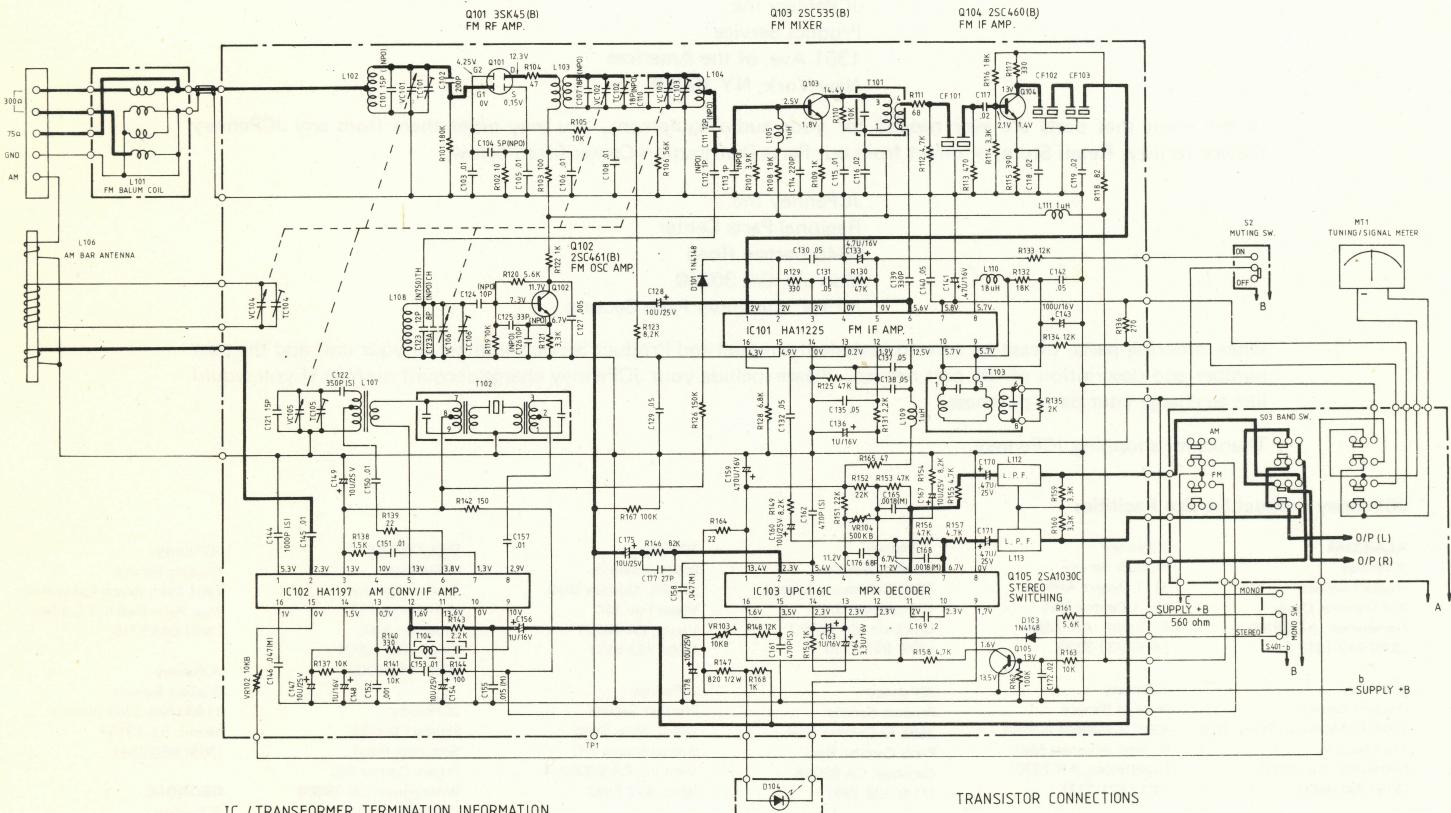
Q101 3SK45C  
FM RF

Q102 2SC535B  
FM MIX



# DIAGRAM

Q104 2SC460C  
FM IF



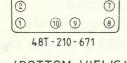
IC / TRANSFORMER TERMINATION INFORMATION

IC101 HA11225  
IC102 HA1197  
IC103 UPC1161C

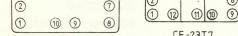


T101  
1206A

T103  
48T-210-671



T102  
CF-237



(TOP VIEW)

TRANSISTOR CONNECTIONS

Q101  
3SK45(B)

Q105  
2SA1030C

Q103, 104  
2SC461(B)

Q103  
2SC535(B)

Q102  
2SC460(B)

Q104  
2SC460C

FM IF

FM

AM

IF

# JCPenney

# IMPORTANT SERVICE

# INFORMATION

JCPenney would like to thank you for purchasing your new audio equipment from us. It's a privilege to have you as a customer, and we know you'll enjoy your purchase for many years to come.

If there are any questions regarding the operation of your new equipment, or if you need to have it serviced, you may use the enclosed directory to locate your nearest JCPenney Service facility. You may also contact your nearest JCPenney Store or write to:

JCPenney Inc.  
Product Service  
1301 Ave. of the Americas  
New York, NY 10019

In the event that parts are ever needed for your audio equipment, you may order them from any JCPenney Service facility, Retail Store, or direct from our Parts Distribution Center listed below:

JCPenney Inc.  
Regional Parts Center  
6840 Barton Road  
Morrow, GA 30260  
ATTN : Customer Parts Section

When ordering parts, please be sure to include the model and Product Service Number of your unit and the part number and description of the part needed. Please include your JCPenney charge account number if you would like to charge your parts purchase.

Thanks for shopping JCPenney.

## JCPenney Product Service Facilities

### ALABAMA

JCPenney  
Product Service  
234 Oxmoor Circle  
Homewood, AL 35209  
(205) 942-1812

JCPenney  
Product Service  
1001-16 Memorial Pkwy. N.W.  
The Mall S/C  
Huntsville, AL 35801  
(319) 391-4800

JCPenney  
Product Service  
610 Cushman St.  
Fairbanks, AK 99701  
(907) 452-5131

JCPenney  
Product Service  
El Con Shopping Center  
3501 East Broadway  
Tuscon, AZ 85716  
(602) 881-2200

JCPenney  
Product Service  
2413 So. 21st Street  
Phoenix, AZ 85034  
(602) 243-7409

JCPenney  
Product Service  
69th Street & Scott Hamilton  
Drive, Suite B  
Little Rock, AR 72205  
(501) 562-0071

### JCPenney

Product Service  
5111 Rogers Avenue  
No. 1 Central Mall  
Ft. Smith, AR 72901  
(318) 233-3020

JCPenney  
Product Service  
4201 N. College Avenue  
N. West Arkansas Mall  
Fayetteville, AR 72701  
(501) 521-2771

JCPenney  
Product Service  
P.O. Box 4888 (Mailing)  
6131 Orangethorpe Ave. (Ship)  
Buena Park, CA 90624  
(714) 523-6481

JCPenney  
Product Service  
31911 Hayman Street  
Hayward, CA 94544  
(415) 489-5401

JCPenney  
Product Service  
3333 Orange Grove Avenue  
No. Highlands, CA 95660  
(916) 488-4680

JCPenney  
Product Service  
8103 Orion Avenue  
Van Nuys, CA 91406  
(213) 782-0940

### JCPenney

Product Service  
4915 Claremont Avenue  
Weberstown S/C  
Stockton, CA 95207  
(209) 951-1110

JCPenney  
Product Service  
2555 El Camino Real  
Plaza Camino Real  
Carlsbad, CA 92008  
(714) 729-7991

JCPenney  
Product Service  
555 E. Shaw Avenue  
Fresno, CA 93710  
(209) 224-8330

JCPenney  
Product Service  
801 East Avenue  
North Valley Plaza S/C  
Chico, CA 95926  
(916) 345-2451

JCPenney  
Product Service  
800 Coddington Center  
Coddington S/C  
Santa Rosa, CA 95401  
(707) 542-2014

JCPenney  
Product Service  
1523 Main Street  
Valley Plaza S/C  
El Centro, CA 92243  
(714) 352-9510

### JCPenney

Product Service  
2115 S. Mooney Blvd.  
Visala Fair S/C  
Visala, CA 93277  
(209) 732-4171

JCPenney  
Product Service  
245 S. Mills Road  
Buenaventura S/C  
Ventura, CA 93003  
(805) 642-7592

JCPenney  
Product Service  
1330 Travis Blvd.  
Solano Mall  
Fairfield, CA 94533  
(707) 422-0320

JCPenney  
Product Service  
680 Citadel Dr. E.  
The Citadel  
Colorado Springs, CO 80909  
(303) 597-0050

JCPenney  
Product Service  
2630 West 2nd Avenue  
Denver, CO 80219  
(303) 753-7850

JCPenney  
Product Service  
3301 Dillon Drive  
Pueblo Mall  
Pueblo, CO 81003  
(303) 545-2893

JCPenney  
Product Service  
90 Progress Drive  
Manchester Industrial Park  
Manchester, CT 06040  
(203) 643-1167

### DELAWARE

JCPenney  
Product Service  
U.S. Route 113  
Blue Hen Mall  
Dover, DE 19901  
(302) 674-4200

JCPenney  
Product Service  
Seminole Road  
Price's Corner S/C  
Wilmington, DE 19808  
(302) 998-1131

JCPenney  
Product Service  
4223 Cleveland Avenue  
Edison Mall S/C  
Ft. Myers, FL 33901  
(813) 936-8101

JCPenney  
Product Service  
5211 Fairmont Street  
Jacksonville, FL 32207  
(904) 398-8371

JCPenney  
Product Service  
1224 West Amelia Avenue  
Orlando, FL 32805  
(305) 425-9055

JCPenney  
Product Service  
4278 - 28th Street, North  
St. Petersburg, FL 33714  
(813) 521-1831

JCPenney  
Product Service  
575 Barton Boulevard  
Rockledge, FL 32953  
(305) 636-7332

### JCPenney

Product Service  
1801 Palm Beach Lakes Blvd.  
West Palm Beach, FL 33401  
(305) 683-5710

JCPenney  
Product Service  
11400 NW 32nd Avenue  
Miami, FL 33167  
(305) 685-7341

JCPenney  
Product Service  
Five Points S/C  
Valdosta, GA 31601  
(912) 244-4150

JCPenney  
Product Service  
5998 Peachtree Road  
Atlanta, GA 30341  
(404) 458-8866

JCPenney  
Product Service  
Satilla Square  
City Blvd. & Knights Avenue  
Waycross, GA 31501  
(912) 283-2655

JCPenney  
Product Service  
216 Baldwin Drive  
Albany, GA 31705  
(912) 435-1401

JCPenney  
Product Service  
Lakeshore Plaza S/C  
Gainesville, GA 30501  
(404) 532-3151

<b>JCPenney</b>	<b>MICHIGAN</b>	<b>NEW MEXICO</b>	<b>TEXAS</b>	<b>JCPenney</b>
Product Service	JCPenney	Product Service	JCPenney	Product Service
Macon & Ridgon Road	Product Service	39 Winrock Center	Product Service	Tanglewood Mall
Columbus Square S/C	32036 Edward Street	Albuquerque, NM 87110	6002 Slide Road-Bldg. A	Rte. 419 & Rte. 220
P.O. Box 6190	Madison Heights, MI 48071	(505) 298-6811	South Plains Mall	Roanoke, VA 24014
Columbus, GA 31906	(313) 585-2070		Lubbock, TX 79414	(704) 328-2661
(404) 561-5850			(806) 792-6841	
<b>HAWAII</b>	<b>JCPenney</b>	<b>NEW YORK</b>	<b>JCPenney</b>	<b>JCPenney</b>
Product Service	Product Service	JCPenney	Product Service	Product Service
716 Umi Street	3225 28th Street, S.E.	Product Service	4239 Will Rogers Parkway	West Main Street
Honolulu, HI 96819	Woodland Mall	10 Sonwil Drive	Oklahoma City, OK 73108	Balloo Park S/C
(808) 847-5711	Grand Rapids, MI 49508	Cheektowaga, NY 14225	(405) 946-5696	Danville, VA 24541
	(616) 949-7600	(716) 685-2200		(804) 793-0021
<b>IDAH0</b>	<b>JCPenney</b>	<b>MINNESOTA</b>	<b>JCPenney</b>	<b>WASHINGTON</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
1435 Caldwell Blvd.	5731 Washington Ave., South	Product Service	4352 South 91 East Avenue	Product Service
Karcher Mall	Edina, MN 55436	Lindenhurst, NY 11757	Tulsa, OK 74136	730 No. Hamilton
Nampa, ID 83651	(612) 935-0321	(516) 884-1700	(918) 664-9133	Spokane, WA 99220
(208) 466-8951				(509) 484-3250
<b>ILLINOIS</b>	<b>JCPenney</b>	<b>NORTH CAROLINA</b>	<b>JCPenney</b>	<b>JCPenney</b>
Product Service	Product Service	JCPenney	Product Service	Product Service
5301 Keystone Court	4301-20 Division Street	Product Service	1933 N.E. San Rafael St.	17200 Southcenter Parkway
Rolling Meadows, IL 60008	Crossroads Center S/C	Colfax, NC 27235	Portland, OR 97232	Seattle, WA 98188
(312) 398-8200	St. Cloud, MN 56301	(919) 668-0432	(503) 775-4337	(206) 575-0888
	(612) 252-6020			
<b>INDIANA</b>	<b>JCPenney</b>	<b>MISSISSIPPI</b>	<b>JCPenney</b>	<b>JCPenney</b>
Product Service	Product Service	JCPenney	Product Service	Product Service
8018 Castleway Drive	101 Apache Mall	Product Service	300 Valley River Center	100 Columbia Center
Indianapolis, IN 46250	Rochester, MN 55901	Morgan Road & 401 BP	Valley River S/C	Columbia City S/C
(317) 849-6800	(507) 268-8383	Fayetteville, NC 28303	Eugene, OR 97401	Kennewick, WA 99336
		(919) 864-2525	(503) 342-6211	(509) 783-4111
<b>MISSOURI</b>	<b>JCPenney</b>	<b>MISSISSIPPI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
201 West U.S. 20	350 Woodrow Wilson Drive	Product Service	1933 N.E. San Rafael St.	Product Service
Marquette Mall	Jackson Mall S/C	802 Hardee Road	Portland, OR 97232	3115 Erie Street
Michigan City, IN 46360	Jackson, MS 39213	Vernon Park Mall	(503) 775-4337	Forth Worth, TX 76112
(219) 879-7361	(601) 982-5110	Kingston, NC 28501	(918) 664-9133	(817) 457-1860
		(919) 527-5041		
<b>KANSAS</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
2828 So. 44th St.	2258 Schuetz Road	Product Service	10600 Hempstead H'way 100	Product Service
Kansas City, KS 66106	St. Louis, MO 63141	100 North Hills S/C	Suite 100	100 Columbia Center
(913) 362-3200	(314) 872-8060 & 8063	Raleigh, NC 27609	Houston, TX 77008	Columbia City S/C
		(919) 787-4920	(713) 686-4303	Kennewick, WA 99336
				(509) 783-4111
<b>IOWA</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
Crossroads S/C	200 Battlefield Mall	Product Service	1933 N.E. San Rafael St.	Product Service
Waterloo, IA 50702	Battlefield Mall S/C	100 North Hills S/C	Portland, OR 97232	6817 W. Morgan Avenue
(319) 232-6611	(417) 883-4220	Raleigh, NC 27609	(412) 373-2404	Milwaukee, WI 53220
		(919) 787-4920		(414) 541-3880
<b>KANSAS</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
2828 So. 44th St.	East Hills S/C	Product Service	1663 Republic Road	Product Service
Kansas City, KS 66106	St. Joseph, MO 64502	Sixth & Main St.	Huntington Valley, PA 19006	5502 S. Padre Island Dr.
(913) 362-3200	(816) 279-6381	Bismarck, ND 58501	(215) 322-8010/11/12	Padre Staples Mall
		(701) 223-1090		Corpus Christi, TX 78411
				(512) 991-7251
<b>KENTUCKY</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
535 Rivertown Mall	101 Range Line	Product Service	702 Pointview Avenue	Product Service
Louisville, KY 40202	North Park Mall	5352 Jackson Road	Eprata, PA 17522	2300 Highland Mall S/C
(502) 361-7153	Joplin, MO 64801	Toledo, OH 43613	(717) 733-0371	Austin, TX 78752
	(417) 623-5700	(419) 476-9515		(512) 452-9262
<b>LOUISIANA</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
1040 Hawn Avenue	8801 "F" Street	Product Service	100 Sher-Den Mall	Product Service
Shreveport, LA 71107	Omaha, NE 68127	Findlay, OH 45840	Sherman, TX 75090	100 Sher-Den Mall
(318) 221-8511	(402) 331-4000	(419) 422-9022	(214) 893-7566	(806) 355-7241
<b>NEVADA</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
3542 Maryland Parkway	The Boulevard S/C	Product Service	11 Sunset Shopping Center	Product Service
Mid-City Plaza S/C	Las Vegas, NV 89109	5245 Southway, S.W.	Amarillo, TX 79102	11 Sunset Shopping Center
Monroe, LA 71201	(702) 735-5131	Canton, OH 44706	(806) 355-7241	(806) 355-7241
(318) 325-0683		(216) 477-7284		
<b>NEW JERSEY</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
296 Frontage Road	35 Cotters Lane	Product Service	100 Oaks Shopping Center	Product Service
Northgate S/C	Highview Industrial Park	6836 Engle Road	Powell Ave. & Thompson Lane	100 Sher-Den Mall
Lafayette, LA 70501	East Brunswick, NJ 08816	Cleveland, OH 44130	Nashville, TN 37204	(806) 355-7241
(318) 233-3020	(201) 257-3840	(216) 826-0265/66	(206) 252-4111	
<b>LOUISIANA</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
312 W. Prien Lake Rd.	Product Service	Product Service	7600A Kingston Pike S.W.	Product Service
Priens Lake Mall	41 East Crescent Blvd.	125 Westpark Road	Knoxville, TN 38919	7600A Kingston Pike S.W.
Lake Charles, LA 70601	Camden, NJ 08103	Centerville, OH 45459	(615) 693-4110	Knoxville, TN 38919
(318) 478-5110	(609) 854-5556	(513) 433-0676		
<b>NEW JERSEY</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
296 Frontage Road	35 Cotters Lane	Product Service	522 Northgate Mall	Product Service
Northgate S/C	Highview Industrial Park	125 Westpark Road	Chattanooga, TN 37415	5611 Pride Road
Lafayette, LA 70501	East Brunswick, NJ 08816	Centerville, OH 45459	(615) 877-2491	Richmond, VA 23224
(318) 233-3020	(201) 257-3840	(513) 433-0676		(804) 231-4443
<b>LOUISIANA</b>	<b>JCPenney</b>	<b>MISSOURI</b>	<b>JCPenney</b>	<b>WISCONSIN</b>
Product Service	Product Service	JCPenney	Product Service	JCPenney
312 W. Prien Lake Rd.	Product Service	Product Service	601 Woods Avenue	Product Service
Priens Lake Mall	41 East Crescent Blvd.	Mentor, OH 44060	Norfolk, VA 23510	601 Woods Avenue
Lake Charles, LA 70601	Camden, NJ 08103	(216) 255-6096	(804) 623-6192	Norfolk, VA 23510
(318) 478-5110	(609) 854-5556			